

Agenda Public Information Session June 5, 2019

5:00 to 6:00pm OPEN HOUSE

6:00 to 7:00pm PRESENTATIONS

7:00 to 8:15pm QUESTIONS



Welcome

Public Information Session June 5, 2019

Cathy Stepp, Regional Administrator, EPA Region 5

Steve Barnett, Mayor of Franklin

Rafael Gonzalez, EPA Community Involvement Coordinator

Pamela Avery, AveryMassey, Facilitator

Who's Who at the Vapor Intrusion Investigation Amphenol RCRA Site - Franklin, Indiana



At the Federal Level -

EPA – Environmental Protection Agency - oversees the investigation and cleanup of the Amphenol site.

ATSDR – Agency for Toxic Substances and Disease Registry – ATSDR works with communities, local & state governments, and other federal agencies to protect people from environmental exposures.

EPA OIG - Office of Inspector General - an independent office within the EPA that helps the agency protect the environment in a more efficient and cost-effective manner.

At the State Level -

IDEM - Indiana Department of Environmental Management – partners with EPA, ATSDR on aspects of the cleanup and oversees State-lead cleanups in the area.

ISDH - Indiana State Department of Health – oversees Indiana health programs.

At the Local Government Level-

City of Franklin, Office of the Mayor – partners with EPA, IDEM and Indiana State Health Department on aspects of the investigation and cleanup on health related, infrastructure and other community concerns.

Other Entities/Parties – with roles at the site

Amphenol Corp. with oversight by EPA, is responsible for the investigation and cleanup.

I WM Consulting Group, Amphenol's environmental consultant

Enviro-Forensics, environmental consultant to the City of Franklin and Franklin Community Schools

Presentations



Health Consultation

Motria Caudill

Agency for Toxics
Substances and Disease
Registry

Vapor Intrusion Investigation Status and Sewer Line Remedy **Carolyn Bury**EPA Project Manager

How You Will be Accommodated During Sewer Construction

Trent NewportCrossRoad Engineers P.C.

Agency for Toxic Substances and Disease Registry (ATSDR) Health Consultation

Amphenol Facility Franklin, Indiana

Motria Caudill, PhD
Environmental Health Scientist

Public Meeting June 5, 2019



Who is ATSDR?

A public health agency within the U.S. Department of Health and Human Services. Located in Atlanta, GA with 10 Regional Offices, including Chicago, IL.

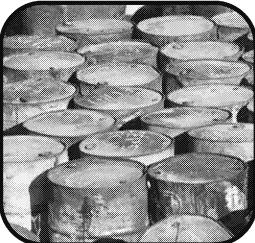
- Not a regulatory or enforcement agency
- Address health issues associated with hazardous materials in the environment

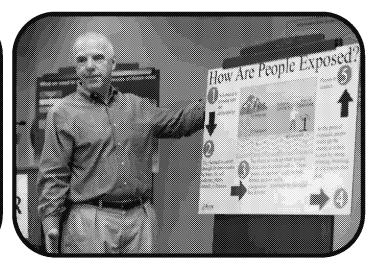


ATSDR works with communities, local, state, tribal governments, and other federal agencies to protect people from environmental exposures

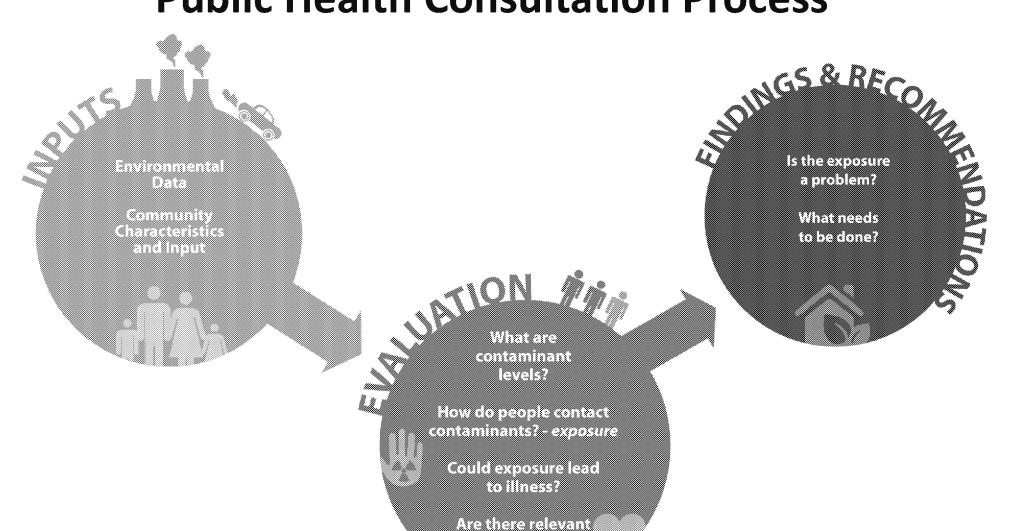
ATSDR does this by investigating chemical exposures, recommending actions to protect people, educating the public, and conducting research to protect health







ATSDR Public Health Consultation Process



health data?

- For more information about ATSDR's public health activities at this site, please contact:
- Motria Caudill, PhD, Environmental Health Scientist
- (312)-886-0267
- mcaudill@cdc.gov
- For more information about ATSDR visit:
- 1-800-CDC-INFO (232-4636)/TTY: 1-888-232-6348
- Email: <u>cdcinfo@cdc.gov</u>
- Web: <u>www.atsdr.cdc.gov</u>

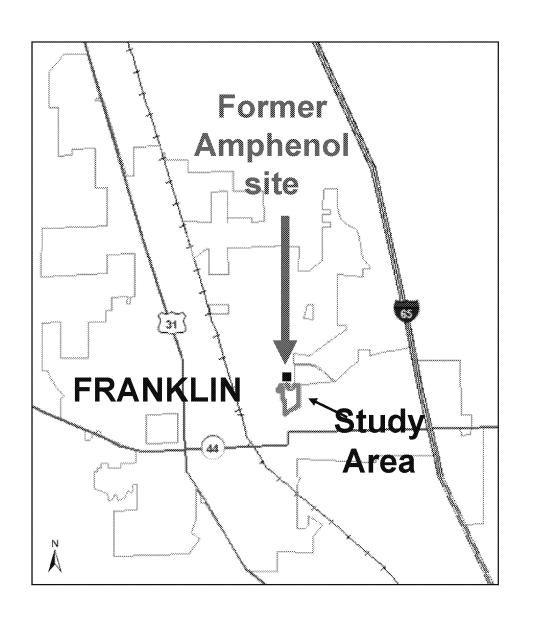
U.S. Environmental Protection Agency

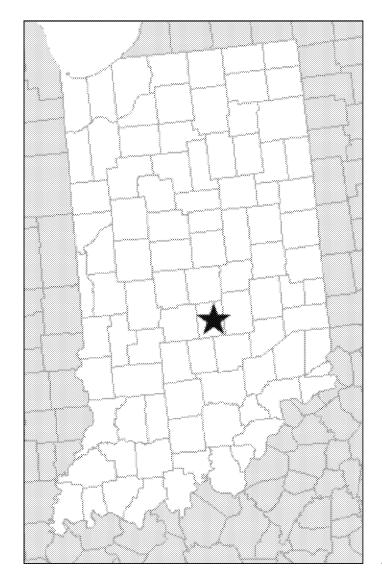
Vapor Intrusion Investigation Status and Results and Sewer Line Remedy Former Amphenol Site

Public Information Session Franklin, IN June 5, 2019



Former Amphenol site in Franklin, IN







PRESENTATION OVERVIEW

Vapor Intrusion Investigation
 Status, Results, Mitigation Work

Sewer Line Remedy

What's Next



Brief History of Site

1990's Investigations: groundwater, soil, creek

1996 Vapor Intrusion Risk Assessment concluded no
risk to the neighborhood from groundwater plume
(study method and health benchmarks at the time)

1994 to Present - Groundwater pump and treat remedy (267,141,650 gallons to-date)

August 3, 2018 Public Meeting: EPA will "start from scratch"

Several investigations completed since July 2018

Conceptual Site Model



Is contamination still in neighborhood?

How far did contamination travel?

Are homes being impacted by vapors?

Vapor Intrusion Study

CSM starting from what we know:

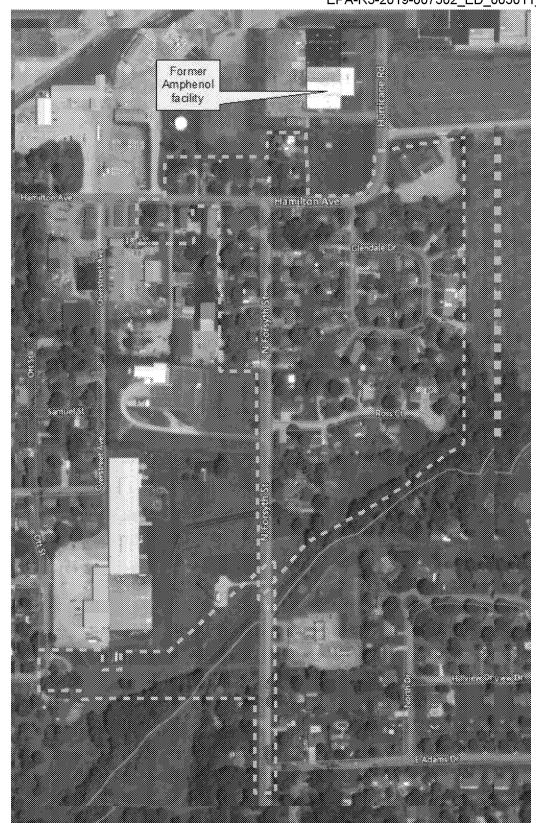
- Sewers were a primary conveyance of solvents to neighborhood, 1961 through 1983
- 1990's investigation under EPA Order reported neighborhood chemical contamination in groundwater and chemical vapors in soil

EPA-R5-2019-007302_ED_003011_00003718

Vapor Intrusion Study Area

Basis of Study Area and conceptual site model:

- Historic data
- Groundwater flow direction
- Sewershed flow direction
- New sampling in 2018 and 2019



Sampling Completed to Support CSM and Decision-Making

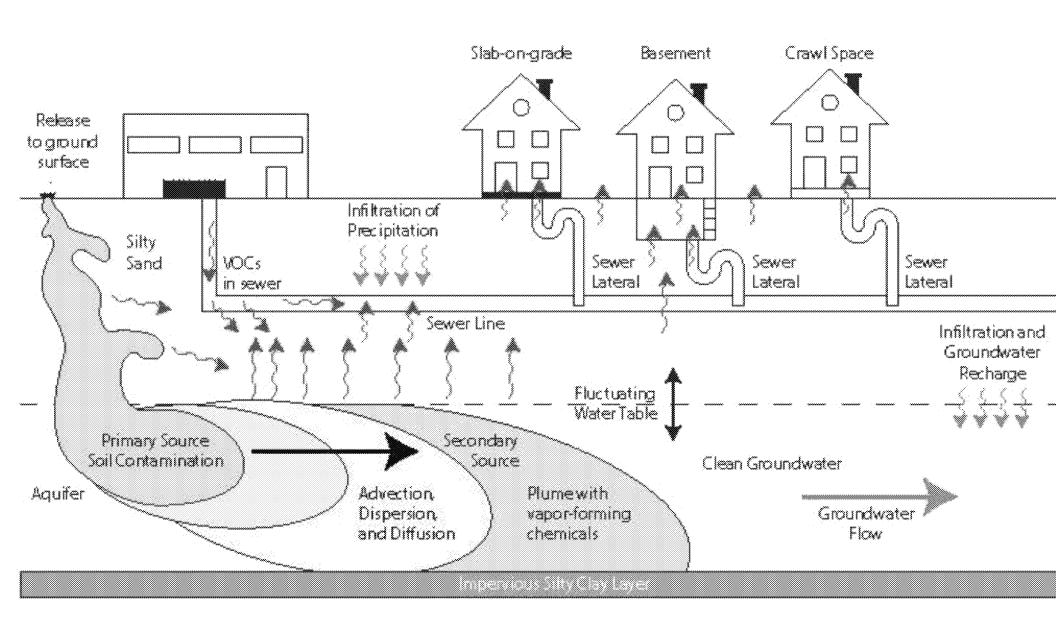


Where is the contamination in -

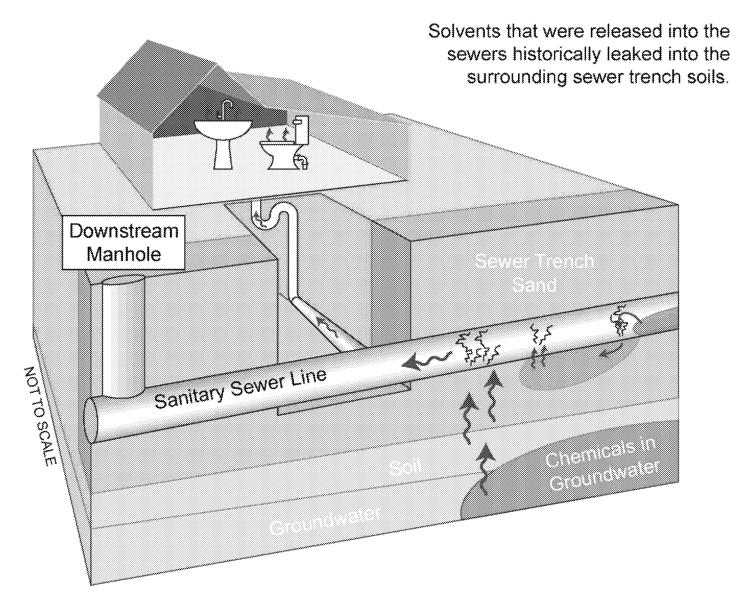
Groundwater?
Sewer vapors?
Soil around the sewers?
Outdoor air?

Are homes impacted by Vapor Intrusion?

Possible Vapor Exposure Pathways



Migration of soil vapors via sewer to indoor air





Conceptual Site Model Update



- Questions answered by data

First -

Groundwater, soil, sewer vapor sampling indicated:

Potential complete exposure pathways to indoor air via
Contaminated groundwater
Connection to the sewer mains

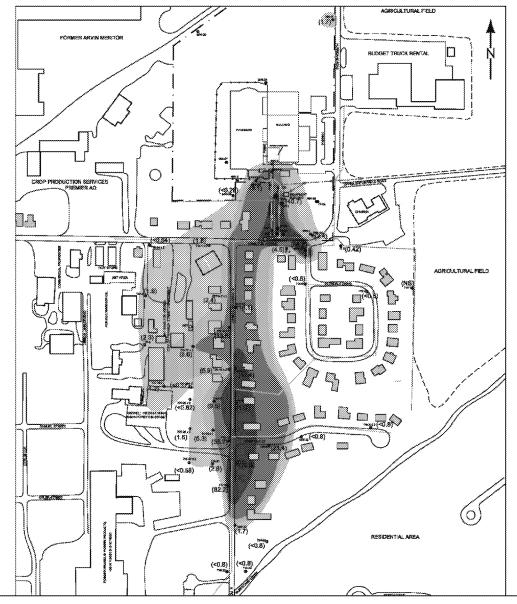
Next –
Indoor air testing demonstrated
Complete exposure pathways



GROUNDWATER TCE (WATER TABLE)

FORMER AMPHENOL REPOMS; 886 HUBRICANE ROAD, FRANKLIN, INDIANA





Groundwater Sampling Results TCE/PCE



42 Homes Identified for Indoor Air Testing

Results: 15 homes had remediation work

(30 homeowners granted access)

Indoor air exceedances: 5

Indoor air exceedance due to sewer gas: 2

Indoor air exceedance due to soil gas: 1

Indoor air exceedance due to soil and sewer gas: 2

Sub-slab or outdoor soil gas exceedances: 6

Sewer line main vapor exceedances: 19

Response Actions Impact from groundwater



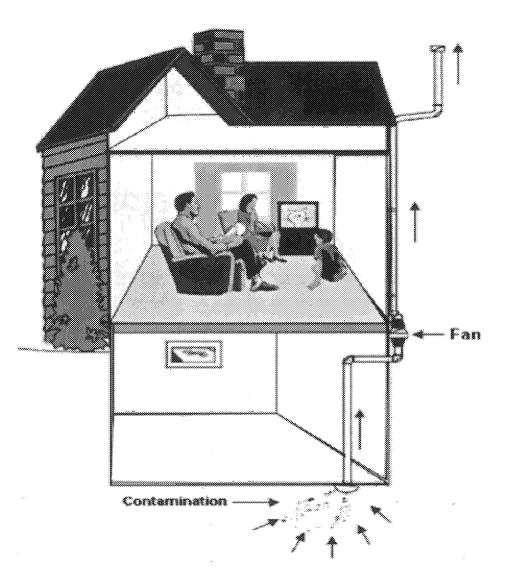
Vapor mitigation systems recommended: 6
 (any home with sub-slab exceedance regardless of indoor air result)

Installed: 5 (one homeowner declined)

EPA will go door-to-door to try to get access for testing in the remaining 12 homes.

Five Homes Vapor Intrusion Mitigation System (Groundwater Migration Pathway)





- Sub-Slab Depressurization
 System
- Similar to radon gas mitigation system
- Suction "negative pressure" used under building
- Prevents vapors from entering structure

Response Actions Sewer Line Home Plumbing System Repairs detected and repaired: 9 homes

- Plumbing exhaust that vented inside attics were rerouted to out the roof
- Vapor leaks observed around toilet flanges were replaced and toilets reset.
- Leaking sanitary lines were sealed at the slab entry point and other joints.
- Plumbing vents beneath sinks were sealed.

Remedial Sequence



- Make homes safe mitigate indoor air impacts in homes
 Vapor mitigation systems installed 5 homes
 Sewer system repairs 9 homes
- 2) Current: Sewer line remedy

 Draft pre-design being revised based on EPA review

 Next design document mid-June
- 3) On-site source area remedy
 Soil sampling begun Feb-March, continuing this summer, evaluating injections to enhance VOC destruction
- 4) Groundwater Pump and Treat System Optimization
- 5) Off-site Groundwater remedy
 Investigate options

Preliminary Remedy Overview

Amphenol – City of Franklin cooperation under EPA oversight and requirements

- Forsythe and Hamilton Streets
- North to south progress
- Excavation of soil and placement on roll-off boxes
- Temporary storage of dug up material on site
- IDEM disposal determination





Sewer Remedy

Several steps to completion Approximate timeline 6 months, 90-day construction period

- Engineering design work plan approval
- Engineering design and bid specifications
- Contract bidding and award
- Remediation waste determination
- Permits: Sanitary sewer construction
 - Sanitary Sewer Discharge
 - Stormwater Pollution Prevention Plan
- Excavation, sewer installation and re-lining, backfill, street repaving

Remedial Goals



Prevent vapor intrusion into buildings via sewers

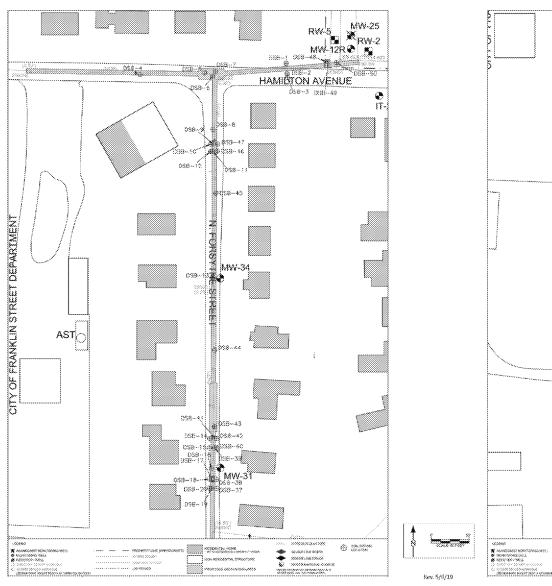
Sewer replacement and lining to:

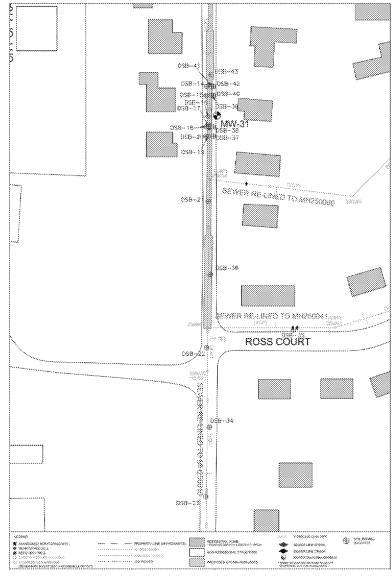
- Prevent and/or minimize impacted groundwater infiltration into the sanitary sewer main and residential laterals
- Remove impacted soil around the sanitary sewer main to prevent vapor infiltration



PRELIMINARY SANITARY SEWER DESIGN PLAN FORSYTHE STREET

FORMER AMPHENOL REI/CMS; 980 HURRICANE ROAD, FRANKLIN, INDIANA







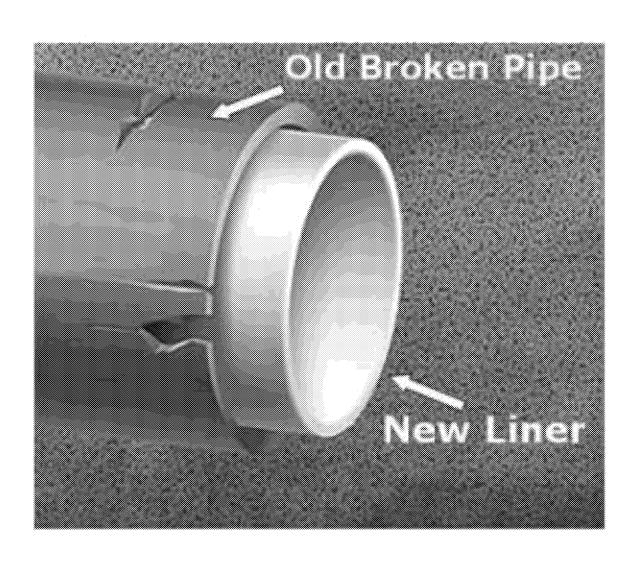


Excavation of soil – Amphenol

Placement of clean fill and street restoration – Franklin

Replacement or relining of sewer line segments based on condition of segment





Remedy Overview, cont'd EPA Requirements to contain contamination and keep workers safe

- Health and Safety Plans
- Materials Management Plan
- Stormwater Pollution Prevention Plan
- EPA requirements include VOC and particulate air monitoring at perimeter
- Construction shut down requirement if criteria are exceeded until conditions change
- Design to minimize inconvenience to residents
- Where needed, groundwater will be pumped to mobile tanks for treatment
- Confirmatory sampling
- Treated water sent to POTW

Note on Indoor air sampling in homes

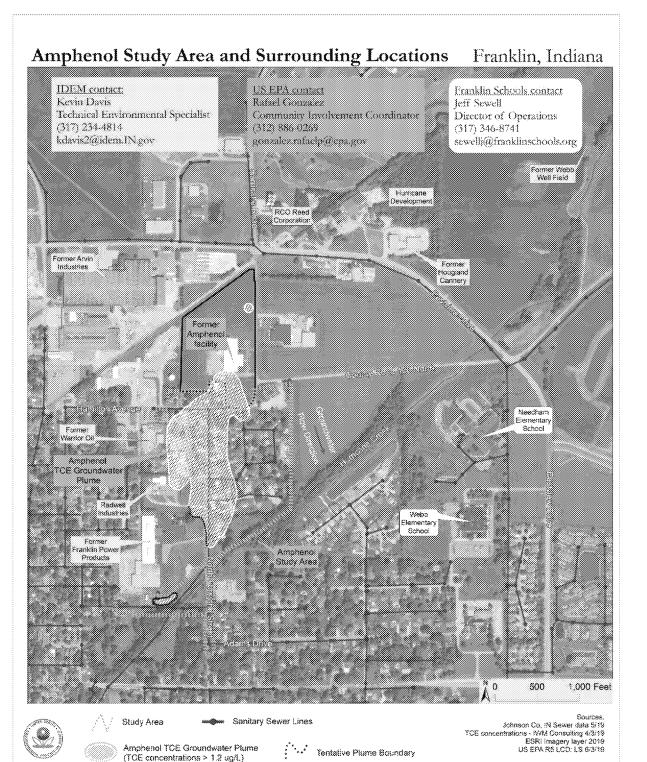


- Access Please grant access
 EPA will be going door-to-door
- Privacy Act You don't have to share results
- All homes will have a minimum of two sampling events

Strategy – Former Amphenol Site Next Steps



- Investigate and remediate source-areas onsite
- 2. Evaluate old and new remedies
- 3. Remedy selection
- Monitor and re-evaluate the vapor intrusion pathway





Bigger picture around the Amphenol Site

Who is responsible and Who to contact

Handout near poster in Lobby



Thank you!

Questions after presentations

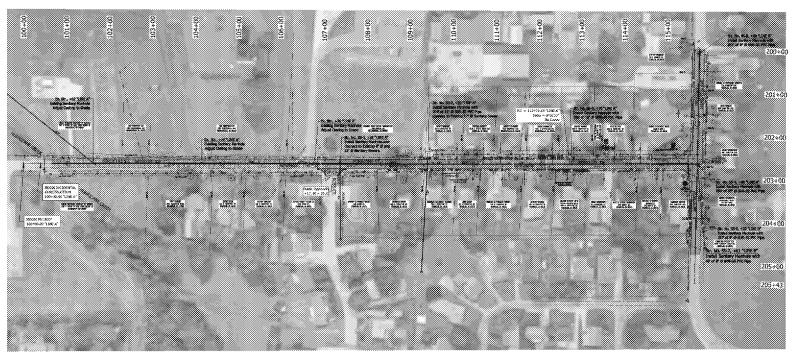
Next presenter,

Trent Newport

CrossRoad Engineers



FORSYTHE STREET SEWER RECONSTRUCTION





Ride Depth Sewood Clark & Golden Kride Contr (S) Line, Thermoplastic, Solid Yellow, 4 Inches (2) Transverse Marteng, Thermo, Stop Sar, 24 Inches

Full Dapth Approal Poverness

Bill Bill and Overlay

1864 for Approaches (Drives) Consumbed Agop. #53 for Apparoaches (Drives)

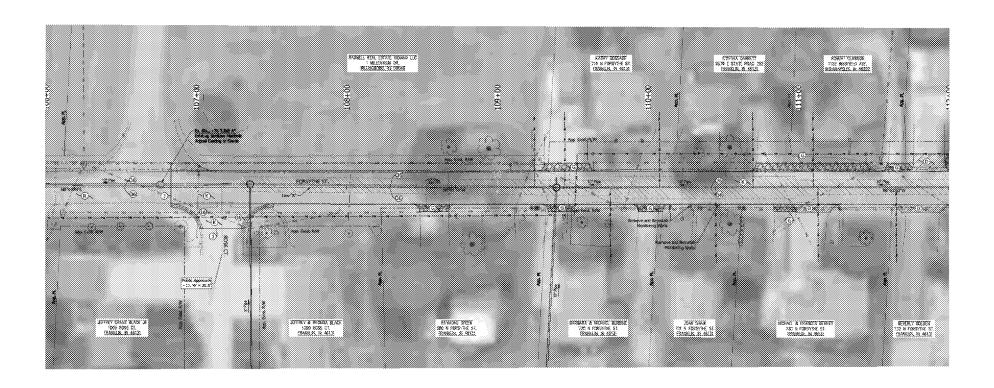
(ZZ) Towards Rollforn Londo (See Tropical Sheet for Additional Details)



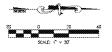




FORSYTHE STREET SEWER RECONSTRUCTION





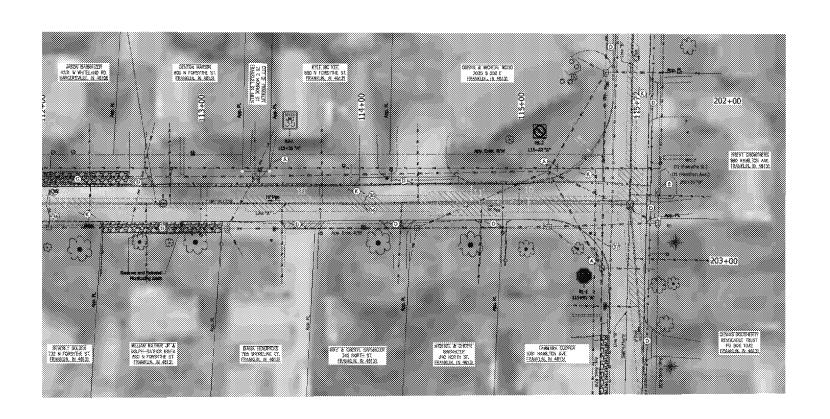




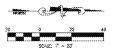




FORSYTHE STREET SEWER RECONSTRUCTION











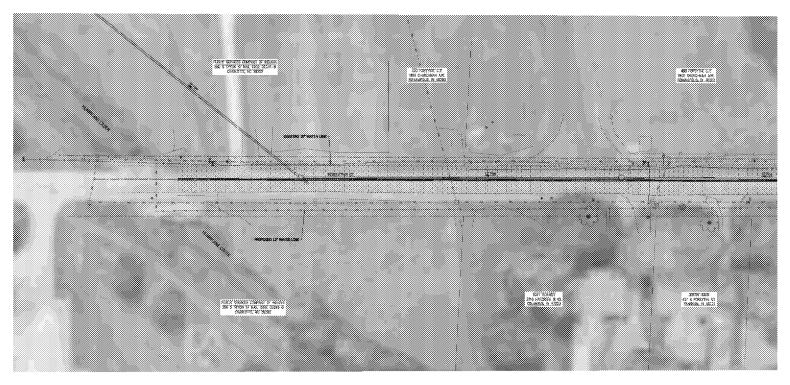




LEGEND
PROPOSED WATER MAIN
EXISTING WATER MAIN





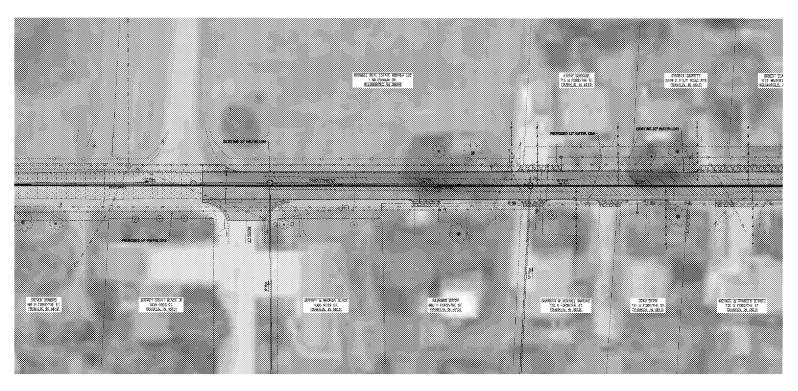




LEGEND
PROPOSED WATER MAIN PROPOSED WATER MAIN PROPOSED WATER MAIN









LEGEND PROPOSED WATER MAIN EXISTING WATER MAIN



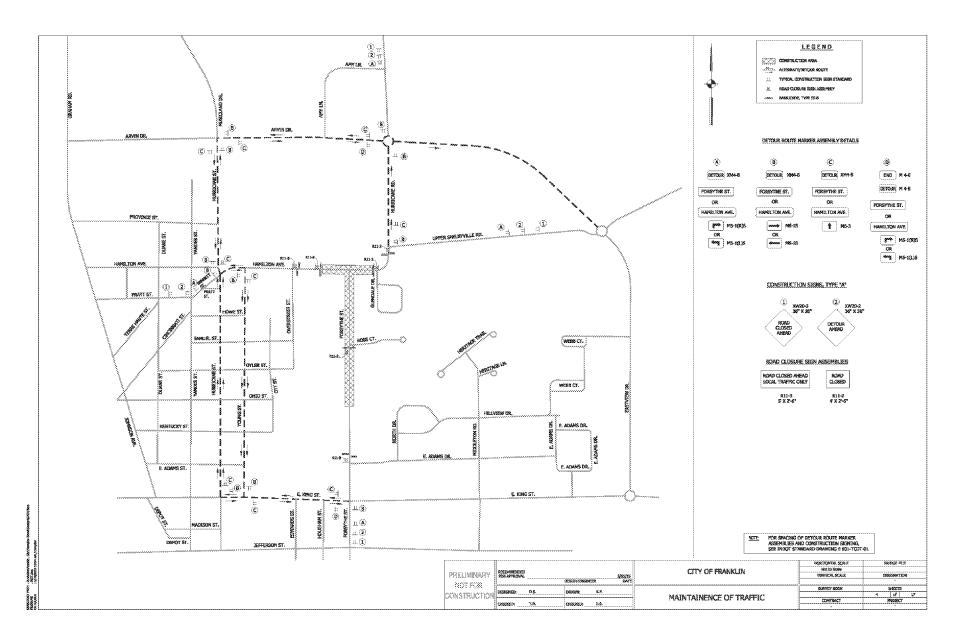












Project Information



- All project work to be in existing Right of Way except sanitary lateral work.
 Individual right of entries will be obtained for this work.
- Individual meetings will be held to discuss any interruptions to driveway access within project limits. Otherwise, access will be maintained to all drives within the project limits from at least one direction (north or south).
- We will communicate with all emergency services to ensure access to all homes during construction.
- We will coordinate with school for bus pick up location and communicate to all residents.
- Contact information for all questions/concerns regarding construction project:

Brad Stahley Trent Newport

<u>bstahley@crossroadengineers.com</u>
(317) 417-4126 tnewport@crossroadengineers.com
(317) 502-2760





- Project to bid in July
- New water main installation approximately 45 days / start in July
- Soil removal, sanitary sewer replacement, and road reconstruction – approximately 3 months
- Project expected to be completed by end of 2019 construction season. At a minimum it would be open to traffic by end of 2019 construction season and then asphalt surface installed in spring of 2020.
- Final yard restoration will be in late 2019 with any re-work necessary to be completed in spring of 2020.
- Project Newsletters will be distributed to update on schedule throughout life of the project.



Questions?



SLIDES USED DURING Q&A



